

Product Name

Issue Date: March 12, 2007

TN-110Y/TN-130Y Series Toner

MSDS No.: ACY701

**Section 1 - Chemical product and company identification**

Product name: TN-110Y Toner, TN-115Y Toner, TN-130Y Toner, TN-135Y Toner, TN-150Y Toner, TN-155Y Toner, TN-170Y Toner, TN-175Y Toner, TN190Y Toner and TN-195Y Toner

Material name: ZEOGLOBULE YT401

These products are yellow toner in a cartridge for Brother Industries, Ltd. laser printers and fax receivers. The cartridge prevents the toner from spilling in normal use.

Manufacturer: Brother Industries, Ltd.  
 Printing & Solutions Company  
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 Telephone (for information): +81-52-824-2735

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 Telephone (for information): +1-800-284-4329

Importer in Canada: Brother International Corporation (Canada) Ltd.  
 1 Hotel de Ville, Dollard des Ormeaux, Quebec, H9B 3H6, Canada  
 Telephone (for information): +1-514-685-0600

Importer in Europe: Brother International Europe Ltd.  
 Brother House, 1 Tame Street, Guide Bridge, Audenshaw, Manchester M34 5JE, UK  
 Telephone (for information): +44-161-330-6531

Importer in Australia: Brother International (Aust.) Pty. Ltd. ACN 001 393 835  
 7 Khartoum Road, North Ryde, N.S.W. 2113, Australia  
 Telephone (for information): +61-2-9887-4344

We do not provide 24-hour support for information contact.  
 Please telephone to the above office appropriate to you during our business hours.

**Section 2 - Composition / information on ingredients**

Chemical name: Styrene-acrylate Toner (Mixture)

Ingredients:

<u>Components</u>	<u>CAS#</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>%Wt.</u>
Styrene-acrylate	Registered	-	-	80 - 82
Fatty Acid	Registered	-	-	5 - 10
Pigment	68516-73-4	-	-	5 - 10
Silicon Dioxide (amorphous)	7631-86-9	-	-	1 - 3

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MSDS No.: ACY701

**Section 3 - Hazards identification**

**EMERGENCY OVERVIEW**

These products are the yellow colored toner with an odorless. They are not expected to cause any adverse health or physical effects through normal use. Unintended operations may produce dust leakage that may cause eye and respiratory tract irritation. Toxic combustion products may be released under fire conditions.

**Potential health effects from overexposure:**

Possible routes of entry include skin/eye contact and dust inhalation. Minimal respiratory tract irritation may occur as with large amounts of any non-toxic dust. Overexposure to decomposition or combustion products may cause irritation of eyes, skin and respiratory tract. See Section 10 for information on combustion products.

**Section 4 - First aid measures**

If irritation occurs or persists from any route of exposure, remove the affected individual from the area and seek medical assistance.

**Eye contact:**

Eye irritation will be caused. If contacted, flush eyes with running water for 15 minutes with eyelids open. Consult an eye-doctor.

**Skin contact:**

No symptoms will appear. If contacted, remove contaminated clothes and wash skin with soap and water.

**Particulate inhalation:**

Lung irritation, difficult breathing, sneezing and/or coughing will be caused. If inhaled, remove the sufferer to fresh air and seek medical assistance immediately.

**Ingestion:**

Stomach irritation will be caused. If ingested, seek medical assistance immediately.

**Section 5 - Fire fighting measures**

**Extinguishing media:**

Dry chemicals, CO<sub>2</sub>, water spray or foam are recommended media.

**Special firefighting procedures:**

Do not use straight water, high-pressure water or water stream in order to prevent creating a dust cloud and spreading fire dust. Use appropriate respirator for carbon monoxide and carbon dioxide. Wear positive pressure self-contained breathing apparatus (SCBA) during the attack phase of firefighting operations and during cleanup in enclosed or poorly ventilated areas immediately after a fire. Personnel not having suitable respiratory protection must leave the area to prevent significant exposure to toxic combustion gases from any source.

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Unusual fire and explosion hazards:

Thermal decomposition of organic components may result in occurrence of oxides of carbon.

Special precautions must be taken if (like most organic materials in powder form) it can form explosive mixtures when dispersed in air. Toxic gasses may be formed upon combustion and represents a hazard to firefighters. See Section 10 for additional information on combustion products.

Explosion limits: Lower = 50 g/m<sup>3</sup>

Section 6 - Accidental release measures

Sweep the spilt toner or remove it with a vacuum cleaner, and transfer into the sealed container carefully. Sweep slowly to minimize generation of dust during clean-up. If the vacuum cleaner is used, the motor must be rated as dust explosion-proof. A conductive hose bonded to the machine should be used to reduce static build-up. Residue can be removed with soap and cold water. Clothes may be washed or dry cleaned after removal of loose toner.

Section 7 - Handling and storage

Handling:

Keep out of the reach of children. In case of accidental spill, try not to disperse the particles. Avoid prolonged inhalation of excessive dust and contact eyes. Use with adequate ventilation. Use the mask, which recommended preventing dust and coarse particulate.

Storage:

Keep out of the reach of children. Keep container tightly closed. Keep away from contact with oxidizing materials. Store in a cool and dry place away from direct light to maintain quality.

Section 8 - Exposure controls / personal protection

Exposure limit value:

See Section 2.

Ventilation:

Good general ventilation should be sufficient under normal use.

Personal protective equipment:

Not required under intended use. For use other than in normal operating procedures (such as in the event of large spill), the following should be applied:

Eye/face: Safety goggles

Skin: Protective gloves recommended

Respiratory: Dust mask (Respirator for large spill)

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**Section 9 - Physical and chemical properties**

Specific Gravity (H<sub>2</sub>O=1): 1.15  
Solubility in water: Negligible  
Appearance and odor: Yellow powder and odorless  
Melting point: 110 C

**Section 10 - Stability and reactivity**

Stability: Stable  
Hazardous polymerization: Will not occur  
Conditions to avoid: Overheating (do not expose to temperature above 200 C) and contact with ignition sources such as open flames, sparks, electrical arcs and static discharge sources.  
Materials to avoid: Avoid exposure to strong oxidizers or reducing agents.  
Hazardous decomposition products: The gas generated by heat decomposition may contain carbon monoxide, carbon dioxide and Nitrogen.

**Section 11 - Toxicological information**

Products

Acute oral toxicity: No information available  
Acute inhalation toxicity: No information available  
Skin irritation: Non-irritant (Method: OECD#404)  
Eye irritation: Very slight irritant (Method: OECD#405)  
Mutagenicity: Negative (Method: OECD#471 / Ames test)

**Section 12 - Ecological information**

No information available

**Section 13 - Disposal considerations**

This material is not a hazardous waste per Federal Regulation 40 CFR 261 when disposed. Consult with the appropriate State and Local Waste Authorities for additional information. Incinerate only in a closed container.

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**Section 14 - Transportation information**

For U.S.A. transportation purposes, this product is not defined or designated as a hazardous material by the U.S. Department of Transportation under Title 49 of the Code of Federal Regulations.

**Section 15 - Regulatory information**

Inventories:	JCSCL (Japan)	Yes
	TSCA (USA)	Yes
	EINECS/ELINCS (EU)	Yes

**Section 16 - Other information**

Hazard rating system classification

	NFPA	HMIS	Key: 0-least; 1-slight; 2-moderate; 3-high; 4-extreme
Health	1	1	<b>N</b> ational <b>F</b> ire <b>P</b> rotection <b>A</b> ssociation rating identifies hazards during a fire emergency. <b>H</b> azardous <b>M</b> aterials <b>I</b> dentification <b>S</b> ystem rating applies to products as packaged.
Flammability	1	1	
Reactivity	0	0	

This document is based on our knowledge at the time of preparation. While Brother Industries, Ltd. believes that the data contained herein are accurate, many of the data have been derived from outside sources and we cannot assume any liability as to the accuracy of the data. They are offered solely for your information.

This document covers only normal conditions of use and handling. When using product under unintended conditions, user is responsible to examine proper precautions for any particular use.

End of MSDS No. ACY701